FIG. 1

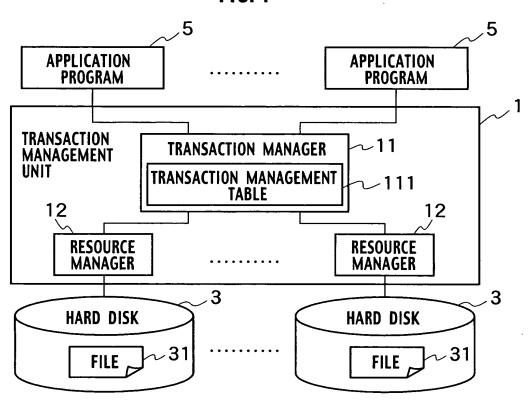


FIG. 2

```
<?xml version="1.0"?>
<flowers>
 <flower>
   <name>Tulip</name>
   <color>Yellow</color>
   <price>150</price>
 </flower>
  <flower>
   <name>Rose</name>
   <color>Red</color>
   <price>500</price>
 </flower>
  <flower>
   <name>Lilac</name>
   <color>White</color>
   <price>300</price>
  </flower>
</flowers>
```

FIG. 3

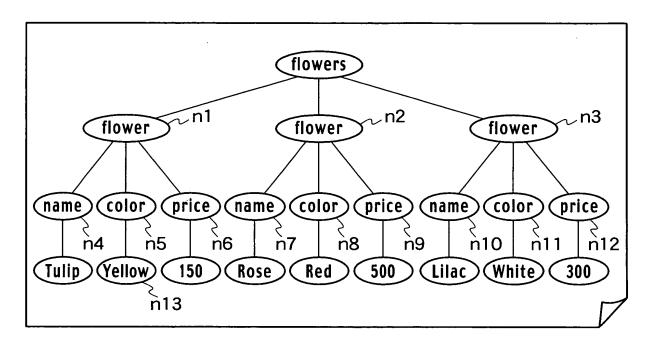


FIG. 4

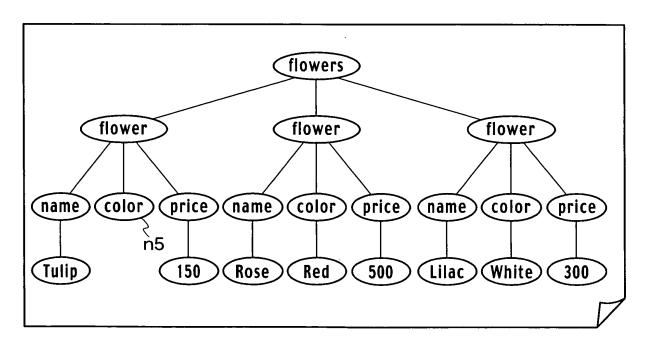


FIG. 5

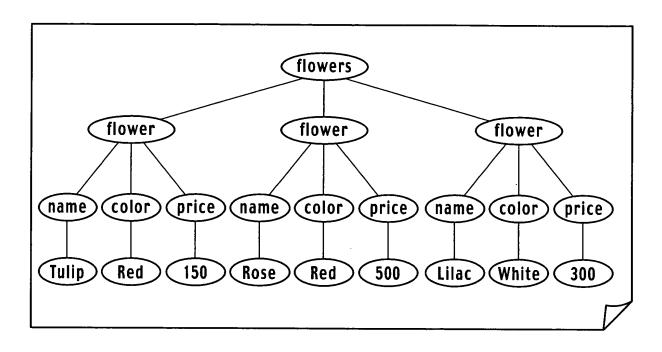


FIG. 6

TRANSACTION	RESOURCE MANAGER
T1	R1
T2	R2
Т3	R1, R2
T4	R2
T5	R1
	ĺ

FIG. 7

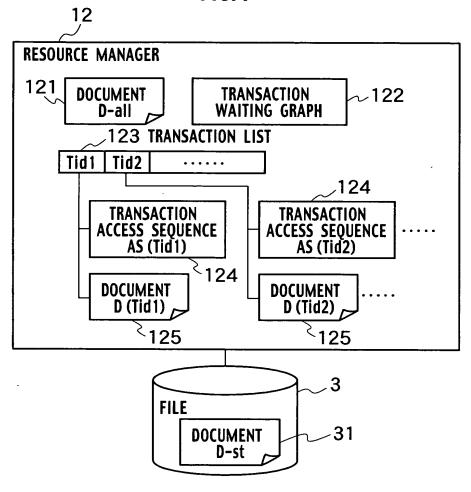


FIG. 8

T1	T3	T5

FIG. 9

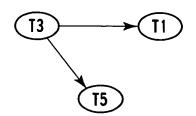


FIG. 10

ACCESS NUMBER	READ OR WRITE	ACCESS OPERATION
1	r	READ ("flower/name")
2	r	READ ("flower [name=Tulip]/color")
3	W	REPLACE (node2, "Red")

FIG. 11

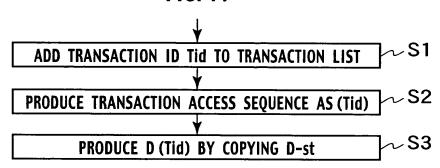
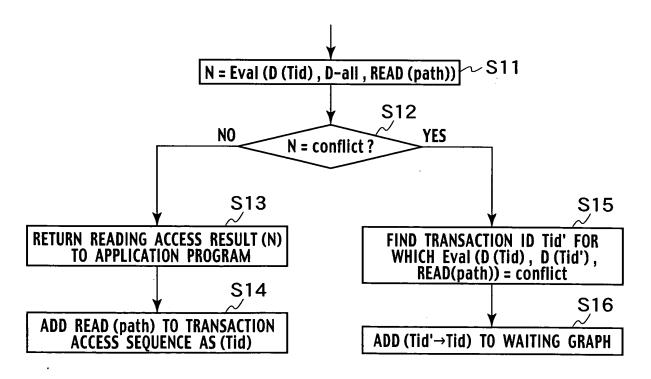


FIG. 12



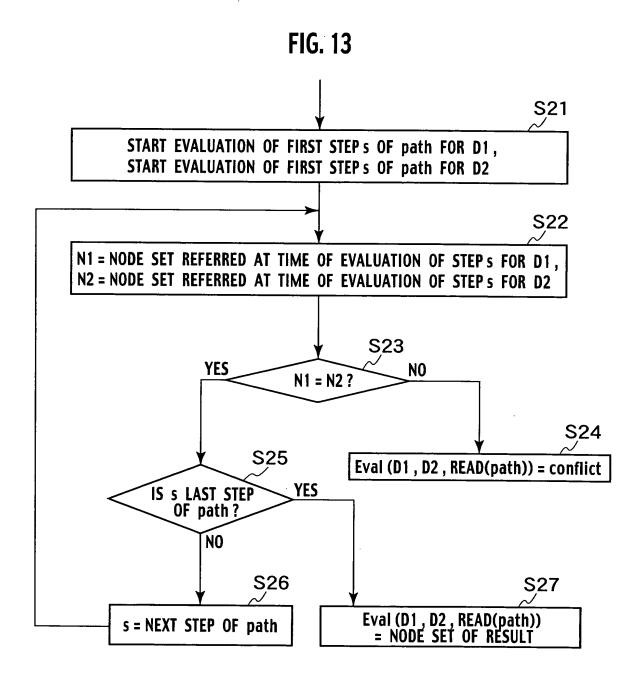
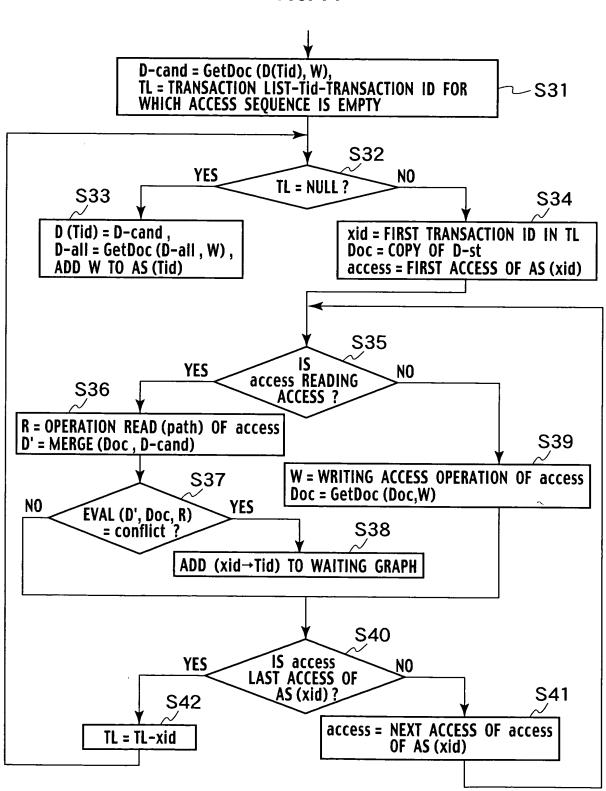


FIG. 14



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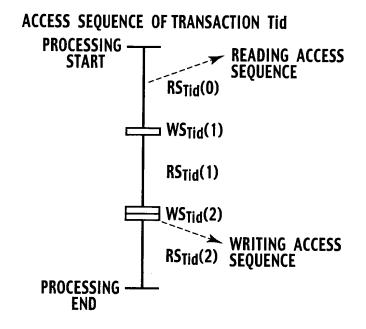


FIG. 16

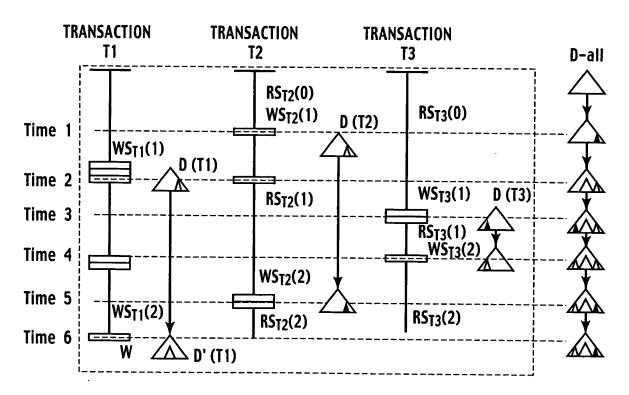
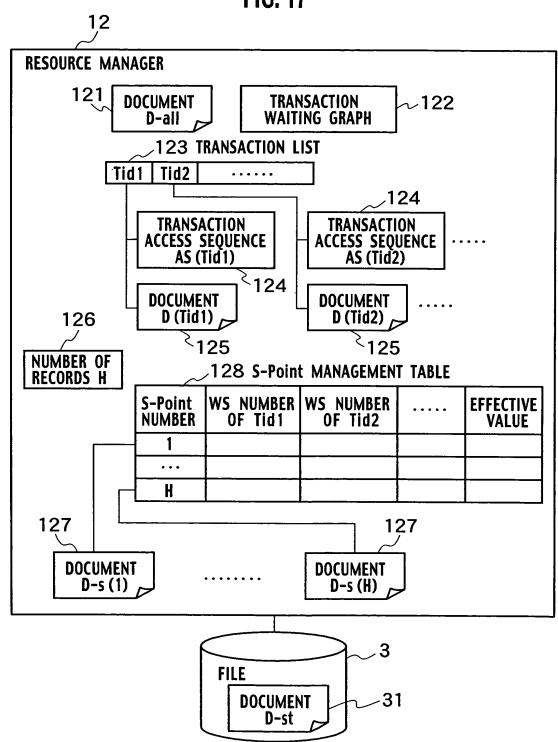


FIG. 17



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FIG. 18

	NUMBER OF WRITING ACCESSES	
RS(0)		READING ACCESS OPERATION #1 READING ACCESS OPERATION #2
WS(1)	1	WRITING ACCESS OPERATION
RS(1)		READING ACCESS OPERATION #1 READING ACCESS OPERATION #2
WS(2)	2	WRITING ACCESS OPERATION #1 WRITING ACCESS OPERATION #2
RS(2)		READING ACCESS OPERATION #1 READING ACCESS OPERATION #2

FIG. 19

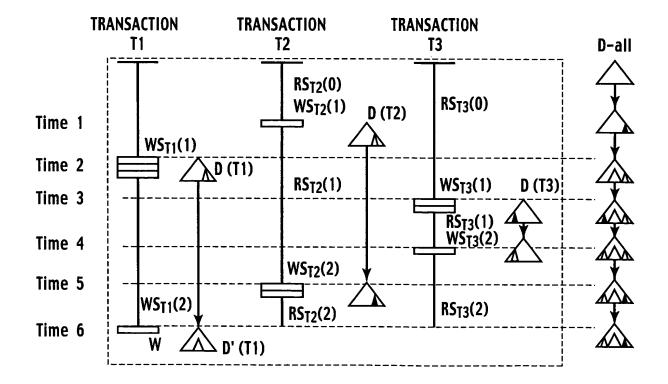
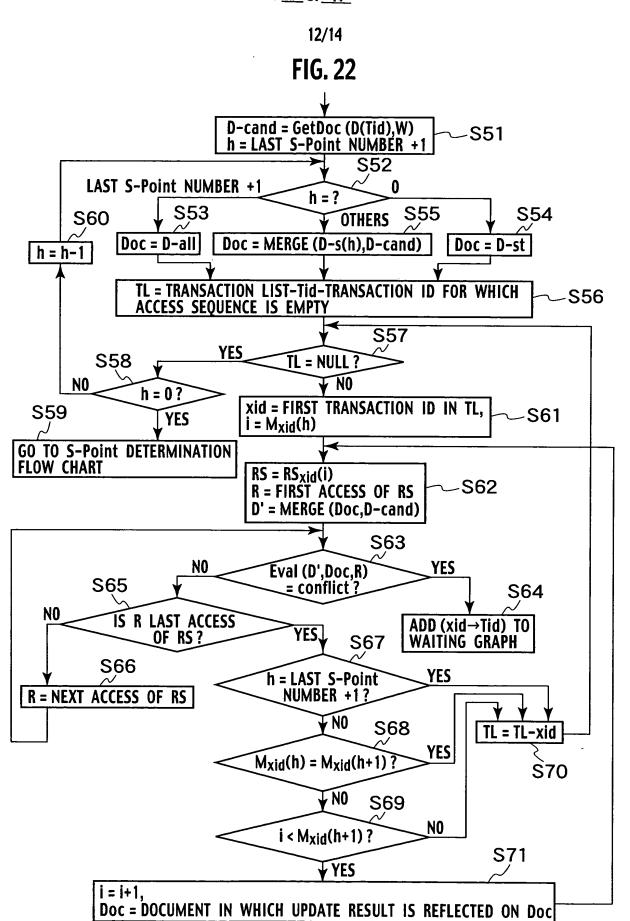


FIG. 20

S-point NUMBER	WS NUMBER			FEFECTIVE VALUE	
NUMBER	T1	T2	T3	EFFECTIVE VALUE	
1	0	1	0	1	
2	1	1	0	3	

FIG. 21

S-Point	WS NUMBER			EFFECTIVE VALUE
NUMBER	T1	T2	T3	EFFECTIVE VALUE
1	1	1	0	4



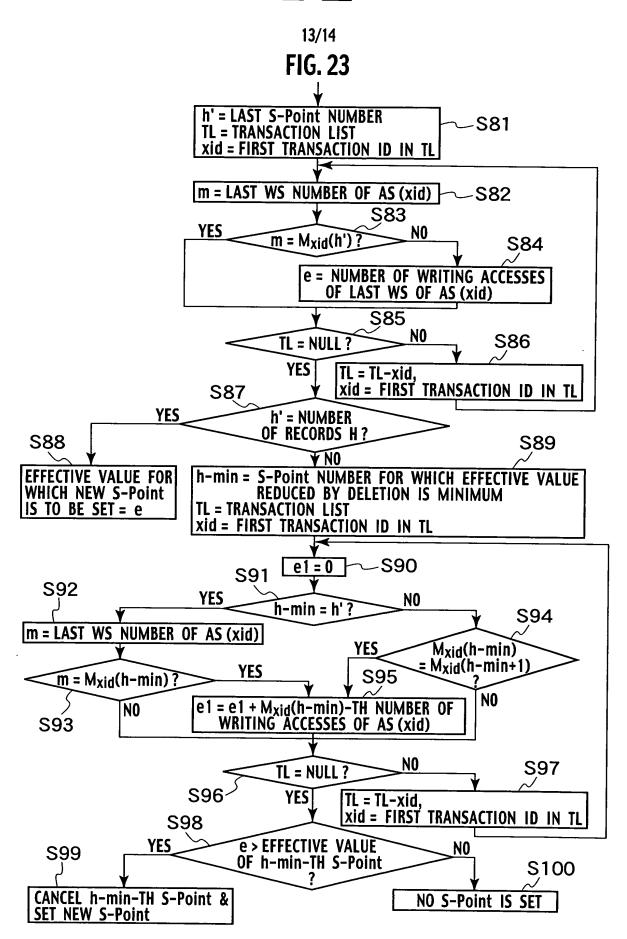


FIG. 24

(a) AT Time 2

S-Point	W	S NUMBE	ER	FFFCTIVE VALUE
NUMBER	T1	T2	T3	EFFECTIVE VALUE
1	0	1	0	1
2	1	1	0	3 .

(b)

AT Time 3

S-Point	W:	S NUMBE	R	FEFFCTIVE VALUE	
NUMBER	T1	T2	T3	EFFECTIVE VALUE	
+	-0 -	+	-0-	+	
1	1	1	0	4	
2	1	1	1	2	

(c)

AT Time 4

S-Point	W.	S NUMBE	R	FFFCTIVE VALUE
NUMBER	T1	T2	T3	EFFECTIVE VALUE
+	1	1	-0-	-4-
1	1	1	1	6
2	1	1	2	1

(d)

AT Time 5

S-Point	W:	S NUMBE	i.R	FFFFCTIVE VALUE	
NUMBER	T1	T2	T3	EFFECTIVE VALUE	
1	1	1	1	6	
2	+	1	-2 -	+	
2	1	2	2	3	